ADDENDUM NO. 03

Baggage Screening Improvements – Phase 2B
[Baggage Handling Building Addition and OSR Room]

PROJECT NO. A044-09002-02

OFFICIAL NOTICE NO. 6688

GENERAL MITCHELL INTERNATIONAL AIRPORT
Milwaukee County, Wisconsin

Prepared By: MILWAUKEE COUNTY DEPARTMENT OF
ADNINISTRATIVE SERVICES
Airport Engineers - Telephone 414-747-5320
5300 South Howell Avenue
Milwaukee, Wisconsin 53207

DATE OF ADDENDUM: February 10, 2012

BIDS CLOSE: 2:00 P.M., WEDNESDAY February 15, 2012

TO ALL BIDDERS:

Each bidder shall read this Addendum in its entirety to determine to what extent his proposal and the contract conditions will be affected. This Addendum to the Contract Documents is issued to modify, explain, or correct the original documents and is hereby made part of the Contract Documents.

RECEIPT - Sign the following receipt and attach to submitted Proposal Form.

Receipt of Addendum No. 3, consisting of seventeen (~~17~~ 15) pages, for **Baggage Screening Improvements – Phase 2B,** [Baggage Handling Building Addition and OSR Room], Official Notice No. 6688, at General Mitchell International Airport, Milwaukee, Wisconsin, dated January 18, 2012 is acknowledged.

Date _____ Firm _____

Per _____ Address _____

CHANGES

SPECIFICATIONS

BOOK 1 of 2

No Changes

BOOK 2 of 2

SECTION 07 42 13 – METAL WALL PANELS , PART 2 Products, Page 6, Paragraph 2.4 EXPOSED – FASTENER, LAP-SEAM METAL WALL PANELS, B.3. – panel profile **CHANGE;** Rib spacing **FROM** 4" **TO** "Manufacturers nominal 7" x 1.5" deep panel. (To match existing)".

SECTION 07 42 16 – INSULATED CORE METAL WALL PANELS, PART 2 Products, Page 6, Paragraph 2.5 FOAM-INSULATION CORE METAL WALL PANELS, B.3 – Panel Coverage **CHANGE FROM** 36" **TO** "Manufacturers nominal 24" spacing.

SECTION 08 71 00 – DOOR HARDWARE, PART 4 HARDWARE GROUPS, Page 17,
ADD: "GROUP 15 - Storeroom, closer with TSA (EAC) security lockset

Function: Latchbolt retracted by lever inside only. Outside lever is always RIGID. Push button keypad outside retracts latchbolt. Deadlocking latchbolt.
Hinges as specified
1 each Lockset - Ingersoll Rand 9250.17.RSD ("Briton Cobra digital lock or equivalent").
1 each Closer
1 each Kickplate
1 each Stop "

CHANGE: "GROUP 15-29, Not used" **TO** "GROUP 16-29 Not used",

SECTION 03 31 00 – STRUCTURAL CONCRETE, PART 2 Products, Paragraph 2.9, E., **CHANGE:** "light-weight concrete mix" **TO:** "normal-weight concrete mix".

Section 26 11 16 – SECONDARY UNIT SUBSTATIONS , PART 2 Products, page 6, Paragraph 2.4.
DELETE the entire paragraph "2.4 DRY TYPE TRANSFORMER SECTION ALT BID E AND F"
REPLACE the paragraph with the new paragraph as follows:

"2.4 LIQUID-FILLED SUBSTATION TRANSFORMERS

A. The transformer(s) shall be the substation type with cover mounted primary and secondary terminations.

B. The average temperature rise of the windings, measured by the resistance method, shall be 55/65° C when the transformer is operated at rated kVA output. The transformer(s) shall be capable of being operated at rated load in a 30° C average, 40° C maximum ambient, as defined by IEEE C57.12.00™, without loss of service life expectancy.

C. Coolant and insulating fluid shall be less flammable seed-oil based fluid.

D. Side-wall mounted terminals shall be for: close-coupling to high and low voltage switchgear

sections close-coupling to high voltage switchgear on the primary side and terminating in an air-filled terminal chamber for cable connections to the low voltage side close-coupling to low voltage switchgear on the secondary side and termination in an air-filled terminal compartment on the primary side for cable entrance.

E. Primary and secondary locators shall be as follows: primary: ANSI Segment 2, i.e. to observer's left when facing the transformer front; secondary: ANSI Segment 4, i.e. to observer's right when facing the transformer front]

F. Bushing location and phase rotation shall be coordinated with primary and secondary switchgear to provide correct alignment when switchgear and transformer are connected in the field.

G. The transformer(s) shall be rated kVA ONAN/ONAF. Primary voltage 4160V delta, secondary voltage 480/277wye, [4-wire, 60 Hz with two 2-1/2% full capacity above normal and two 2-1/2% full capacity below normal taps. Impedance shall be Manufacturer's standard impedance, ±7-1/2%. Basic impulse level of the primary winding shall be 60 kV. As specified in IEEE C57.12.00™ for comparable kV class.

H. Transformer sound levels shall be warranted by the manufacturer not to exceed the values specified in NEMA TR 1.

I. The transformers shall be of sealed-tank construction of sufficient strength to withstand a pressure of 7 psi without permanent distortion. The cover shall be welded. The transformer shall remain effectively sealed for a top oil temperature range of -5° C to 105° C. When required, cooling radiators will be provided on the back and front of the tank. Lifting eyes and jacking pads will be provided.

J. Coils shall be wound with copper conductors.

K. All cores to be constructed of high grade, grain-oriented, non-aging silicon steel with high magnetic permeability, and low hysteresis and eddy current losses. Magnetic flux densities are to be kept well below the saturation point.

L. Tank, radiators, and terminal chambers, if provided, shall be treated to remove oil and scale by either shotblast or phosphatizing treatment to provide proper paint adhesion. All exterior surfaces shall be primed, using a high quality solid two-paint catalyzed epoxy. Minimum dry film thickness shall be 2 mils. A durably hard polyurethane topcoat with a minimum dry film thickness of 1 mil shall be applied to all primed surfaces. The color of the finish coat shall be ANSI 49 and shall be coordinated with the switchgear manufacturer in order to match the color of the switchgear.

M. Provide indoor Factory Mutual Labeling

N. Fluid Containment Pan

O. Accessories - The following accessories shall be included on all substation transformers:

1. Tap changer with silver-plated stationary and movable contacts, for de-energized operation only, which is externally operable and pad lockable.
2. Upper filling plug and filter press connection
3. Drain valve with a 3/8 inch sampler
4. Dial type thermometer
5. Pressure/vacuum gauge with bleeder connection
6. Magnetic liquid level gauge
7. Pressure relief valve, with manual bleeder and automatic resealing, set to operate at 10 psi with a flow rate of 50 scfm:

P. Additional Accessories

1. Alarm contacts on all gauges
2. Pressure relief diaphragm to operate at 10 psi and relieve 10,000 scfm at 15 psi
3. Sudden pressure relay permitting remote alarm or trip due to a predetermined rate of pressure rise without seal-in delay

Q. The transformer shall be equipped with forced air cooling or be designed for the future addition of forced air cooling. The fan control equipment will be actuated by contacts that sense [the temperature of the top liquid] [the average winding temperature] of the transformer. Temperature sensors, motor starter for fan motors, test modes of operation, as well as fans and fan motors, will be provided on units designated ONAN/ONAF. Temperature sensors and details for future mounting of fans and controls will be provided on units designated ONAN/FONAF. Fan motors will operate from a 240 V, single-phase, 60 Hz source of power provided by the user.

R. Testing - Tests shall be conducted in accordance with the provisions of IEEE C57.12.90™ and shall include, as a minimum, the following tests:

1. Ratio
2. Polarity
3. Phase Rotation
4. No-Load Loss
5. Excitation Current
6. Impedance Voltage
7. Load Loss
8. Applied Potential
9. Induced Potential
10. Impulse Test
11. Temperature Test (typical data from previous unit is acceptable)
12. Sound Test (typical data from previous unit is acceptable)"

DRAWINGS

Architectural

SHEET A103B
Item: Detail 1, Partial Grade Level Plan, Admin Building **DELETE;** Key note 60 & 61 at doors A150 & A150A-1from plan. (Doors changed from card reader magnetic lock access to TSA (EAC) lockset)

SHEET A706B - Wall Section
Item: Detail 1, existing W16 beams between double T's **ADD;** Note to these 2 beams. "Prep existing beams & SFRM 2-hr"

SHEET A800B
Item: Door schedule **CHANGE**; Door A150 HW set **FROM** "206" **TO** "15".

SHEET A800B
Item: Door schedule **CHANGE**; Door A150A-1 HW set **FROM** "206" **TO** "15".

Structural

SHEET S101B
CHANGE section cut near column L-27.4 **FROM** "11/S710B" **TO** "11/S701B". **CHANGE** detail call out at L-24.4 **FROM** "10/S710B" **TO** "10/S701B". (see attached drawing)

Electrical

SHEET E103B: **CHANGE:** Detail #2 as shown on attached drawing.

SHEET ES301B, ES302B, ES401B, and ES402B: **ADD** Limits of construction and modify speaker devices as shown on full sized sheets. (attached)

SHEET ES303B: **CHANGE:** paging system diagram as shown on full sized sheet. (attached)

CLARIFICATIONS

Q: When is the work for the extension of the Tug tunnel being done? Between columns 36 and 38 and M.55 and L.9, I do not find this work noted in the phasing. Is this work 1st shift or 3rd shift?

A: That work is to be done 3rd shift. The tug tunnel and access to the tug tunnel must be maintained while airlines are operating during normal hours.

Project Manual Book 2 of 2

Q: Ref 078100, Par. 2.2.1: Products named are standard density, medium density and ultra high density. Product performance spec (2.2.3) requires a medium density product. What is really required?

A: 078100/2.2.3 sets the min. performance standard required for SFRM. Medium density

Q: Ref 078100, Par. 2.2.1: Products named are interior grade products with one exception (Z156T). Product performance spec (2.2.2) requires exterior grade product. There are no locations on the project that would require a exterior grade product. What is really required?

A: The columns that support the elevated structure, resting on tug tunnel walls are an exterior grade application.

Drawings:

Architectural:

Q: Code Matrix on Sheet A002B indicates Structural Frame supporting Roofs only = 1hr rating. Most other plan references (e.g. A703B, A704B, etc) indicate 2hr rating for roof Structural frame. Which is correct?

A: See 07 81 00/3.6 & 07 81 23/3.5 for fire proofing schedule. Building addition is a type 1B rated construction. 2-hr protected structural frame. Under table 601, Roof constructions & secondary roof members, (deck & joists, roof purlins) are required to be protected 1 hr min. Columns & beams that support the roof system are part of the buildings primary structural frame. These members are required to be 2-hr protected. Fire protection schedule & wall sections are consistent to this requirement.

Q: Code Matrix requires 2hr floor construction. This can be achieved without spraying underside of floor decking (there is sufficient concrete), however the plans indicate to spray the decking. Is this necessary?

A: See 07 81 00/3.6 & 07 81 23/3.5 for fire proofing schedule. Building addition is a type 1B rated construction. 2-hr protected structural frame. Under table 601, Floor construction primary & secondary members, are required to be protected 2 hr min. Columns & beams that support the roof system are part of the buildings primary structural frame. These members are required to be 2-hr protected. Composite floor deck (concrete, wire mesh, rebar & metal deck & beams that support metal deck) is considered a secondary floor member, 2-hr protection required. Fire protection schedule & wall sections are consistent to this requirement.

Structural:

Q: Are the W12X16's on top of the W30X173's along line K on S201B existing or are they new?

A: The W12's are existing.

Q: Do new W12 columns in L-line require fireproofing?

A: The new columns along grid line "L" are new columns directly attached to & supplementing the existing buildings primary structural roof frame. Those new supports will require 2- hr fireproofing. Fire protection schedule & details are consistent to this requirement.

Q: Do new W16 beams at existing Baggage Handling T138 roof require fireproofing?

A: The new W16 beams that are identified as hanging conveyors & conveyor auxiliary steel do not require fireproofing. The 2 existing W16 beams just south of line 30.4 in this room along with the new W12 beams are supplementing additional snow drift loads imposed on the existing double T roof planks. These two existing beams & new W12's will require 2 hr fireproofing..

Q: Slab on metals Deck: The plans call for Normal weight concrete, the specs call out Light weight concrete. Please clarify.

A: Slabs on metal deck are to have normal weight concrete per the drawings.

Q: Does the decking and or beams need to be shored while pouring?

A: No, as long as the sheets are multiple span

Mechanical:

Q: On Plan Page M101B - Grade Level Mechanical Plan - South (attached) there are no pipe sizes. Would you please get us the information needed?

A: Approximate hot water supply and return pipe size is 1-inch. Contractor shall field verify prior to installing new piping.

Electrical:

Q: There is no specification in section 26 05 33 for the new telecom rack specified for the TSA indicated as note #2 on sheet ES020B. Please provide a specification for that equipment

A: Provide a standard floor mounted telecom rack. All equipment in the existing wall mounted cabinet is being relocated to new rack. Cabling is coming from the south and shall be re-terminated on equipment in new rack. Modify conduit and shorten cabling as required to accommodate relocation.

Q: There is one 1" PVC conduit indicated from room 43 to room 53 for a 24 strand single mode fiber optic cable. This is indicated as note #5 on sheet ES020B. There is a note #4 on ES202B that indicates that we need to complete the fiber loop from the mezzanine back to room 53. Shouldn't there be an additional conduit indicated from the mezzanine back to room 53 for that side of the fiber loop? I.E. there is a fiber from room 53 to room 43 to room 41 up to the mezzanine then back down to room 53?

A: The route is from room 51 to 41 to 43 to Mezzanine, then from Mezzanine back to room 51.

Q: Can the quantity and type of cables that terminate in the existing TSA wall mounted rack that gets relocated to the new TSA floor mounted rack? Are we responsible for re-terminating the cable or is the TSA?

A: Provide a standard floor mounted telecom rack. All equipment in the existing wall mounted cabinet is being relocated to new rack. Cabling is coming from the south and shall be re-terminated on equipment in new rack. Modify conduit and shorten cabling as required to accommodate relocation.

Q: The fiber for the fire alarm going from the mezzanine panel to rooms 43 and 51, is this going in new raceway, existing raceway, or no raceway? Nothing is listed or shown on the plan.

A: All fire alarm fiber optics shall be in new 1" conduit.

Q: On plan ES103B the fiber on note 11 connecting A150A t the TSA rack by the break room, is this the same fiber listed on E603B note 8? If so is it 12 or 24 strand? Is there a raceway associated with this fiber?

A: Yes it is the same fiber. It shall be 24 strand.

Q: The EDS machines on plans ES201B and E603B, one plan shows multi mode fiber going to them the other shows single mode fiber, which is it?

A: Multimode for EDS machines.

Q: Is there a specification for the new TSA cabinet going in room 24?

A: Provide a standard floor mounted telecom rack. All equipment in the existing wall mounted cabinet is being relocated to new rack. Cabling is coming from the south and shall be re-terminated on equipment in new rack. Modify conduit and shorten cabling as required to accommodate relocation.

Q: With respect to addendum #2 and the revised bid schedule, upon what are we to base our base bid electrical equipment on? If Alternate #2 is for S&C medium voltage switchgear and Alternate #3 is for Square D medium voltage switch gear, does that mean GE or Eaton/Cutler-Hammer are the base bid? A similar question would be for alternates 4, 5 & 6.

A: All vendors listed in the specification are allowed to be bid in the base bid. The EC can select whom they choose for pricing. The alternates are just a price break out of selected vendors.

Q: Note 3 on plan ES020B lists moving a TSA cabinet. What type and quantity of wires are currently

housed in that cabinet?

A: Provide a standard floor mounted telecom rack. All equipment in the existing wall mounted cabinet is being relocated to new rack. Cabling is coming from the south and shall be re-terminated on equipment in new rack. Modify conduit and shorten cabling as required to accommodate relocation.

Q: Are you able to provide a riser diagram identifying all the optic backbone cabling that is expected for this project identifying stand count, type of fiber and which rooms are included? If a riser diagram in not available please provide an excel spreadsheet.

A: Fiber routes are described on the plans. No additional diagrams or spreadsheets will be provided at this point in time.

Q: Have the 16-2 cables been eliminated for all cameras? If not which one will still require 16-2 cable? The standard stated 1 category 6 and 2 16-2 cables.

A: All cameras are IP cameras requiring (1) Cat 6 cables.

Q: Can you provide a print that shows where room T-190 is located?

A: It is located approximately at column lines J & 6.9.

Q: Can cameras be terminated using an 8-pin modular plug or does the customer want cable to terminate using a category 6 jack installed in a 1-port surface box?

A: Cameras are IP based and require a Cat 6 cable. Cameras are provided with RJ45 connectivity.

Q: Can you identify what type cabling is being moved from the wall mounted rack into the cabinet for TSA as listed on sheet ES020B? Please include voice, data and fiber optic cables and quantities.

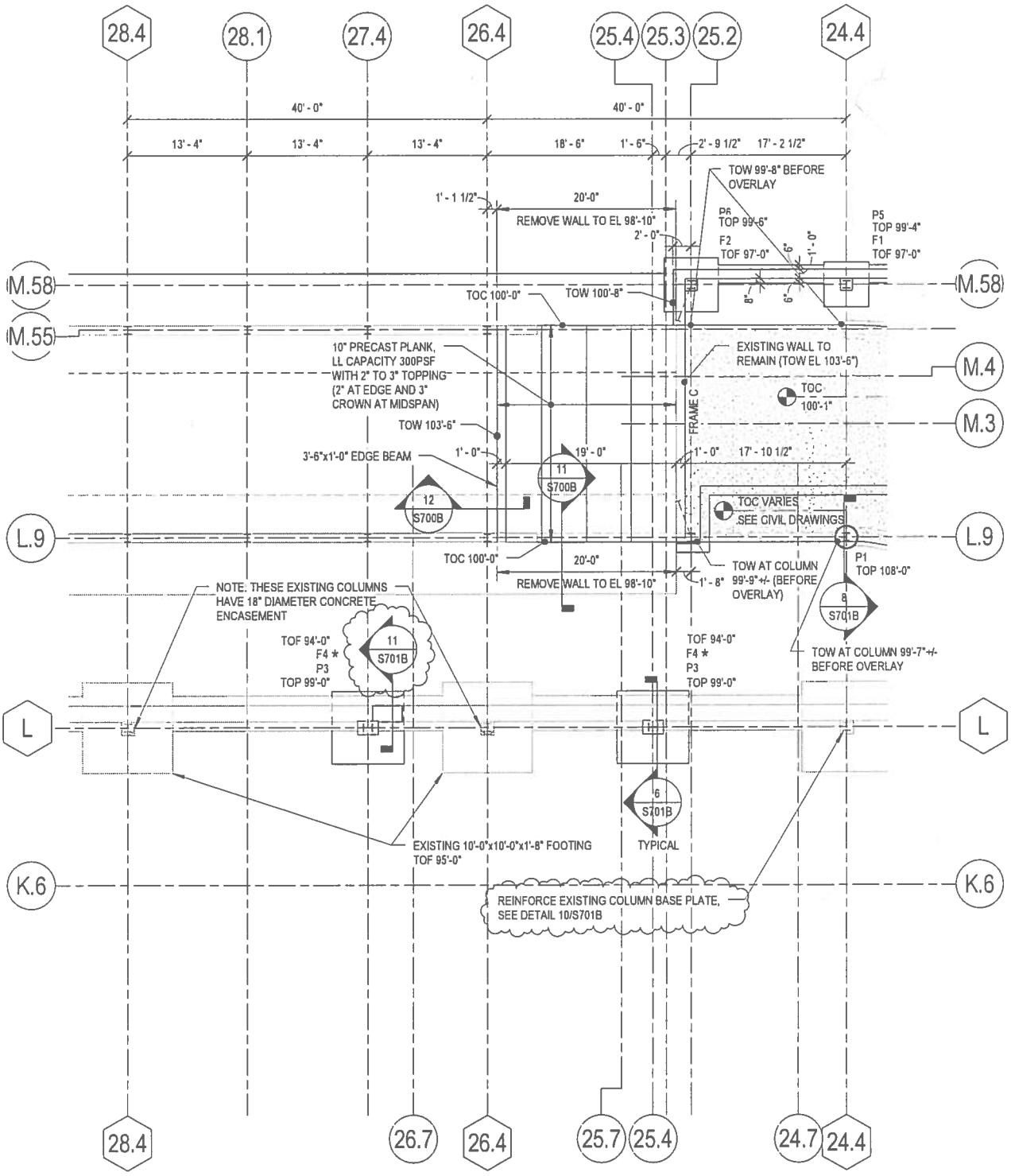
A: Provide a standard floor mounted telecom rack. All equipment in the existing wall mounted cabinet is being relocated to new rack. Cabling is coming from the south and shall be re-terminated on equipment in new rack. Modify conduit and shorten cabling as required to accommodate relocation.

Q: Does the fiber need to be installed in fiber innerduct when installed in the tray? If so please provide size of innerduct and if it should be plenum rated.

A: Innerduct is not required in cable tray. All cabling shall be plenum rated.

Q: Also, I noticed on the drawings that there is a Fixture AA3 that is not listed on the fixture schedule. Could you please advise what this would be?

A: We cannot locate any fixture type "AA3" fixtures on the plans. Please clarify.



1 FOUNDATION PLAN

3/32" = 1'-0"

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES

CITY CAMPUS 2711 W. WELLS ST - 2ND FLOOR MILWAUKEE, WI 53208

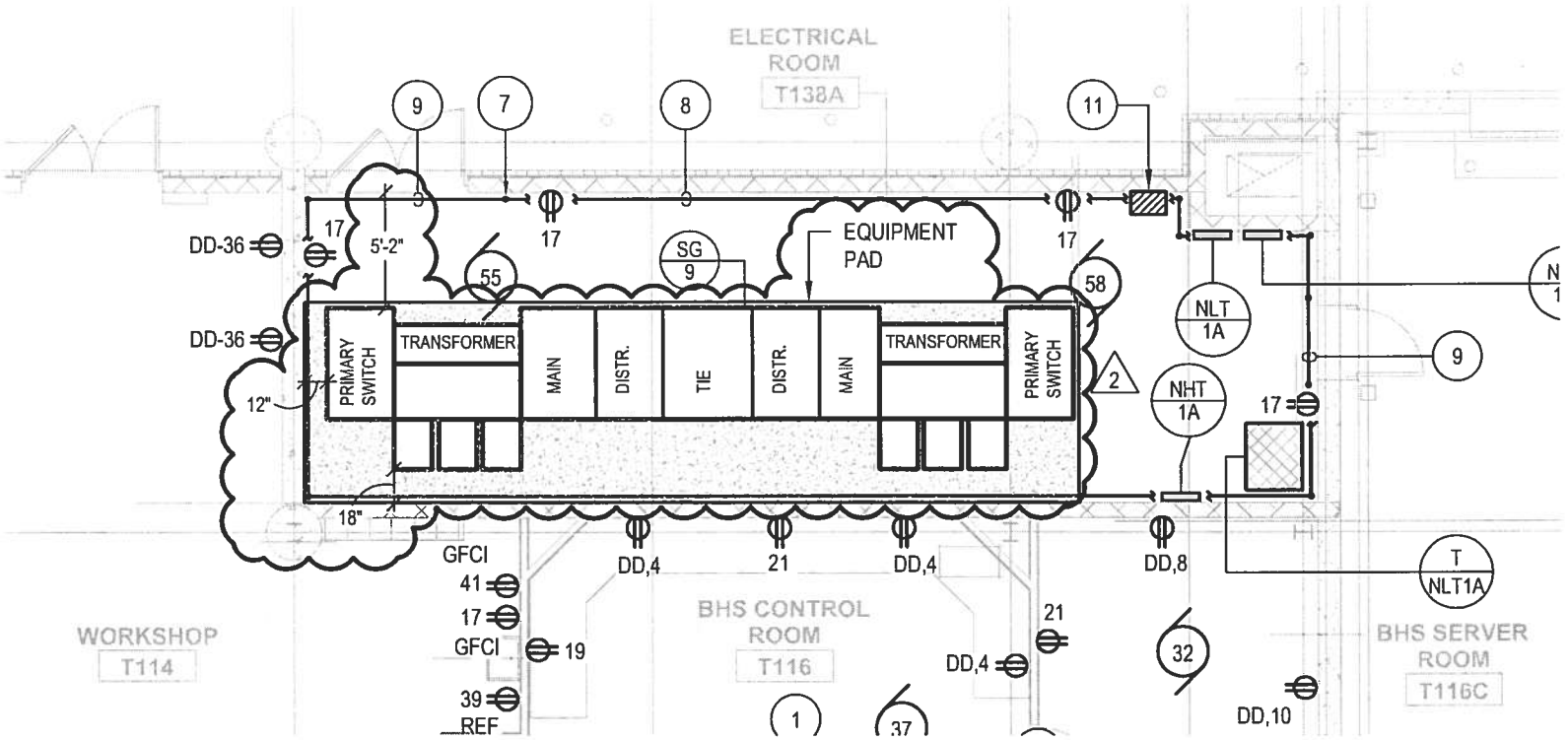
GRAEF

PROJECT NUMBER: A044-09002-02
DATE: 02/10/12
SCALE: 3/32" = 1'-0"
SHEET TITLE: PARTIAL FOUNDATION PLAN - NORTH

PROJECT TITLE: GENERAL MITCHELL INTERNATIONAL AIRPORT BAGGAGE SCREENING IMPROVEMENTS PHASE 2B

ADDENDUM # 03

S101B



2 ENLARGED GRADE LEVEL POWER - PLAN

1/8" = 1'-0"

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES

CITY CAMPUS 2711 W. WELLS ST - 2ND FLOOR MILWAUKEE, WI 53208

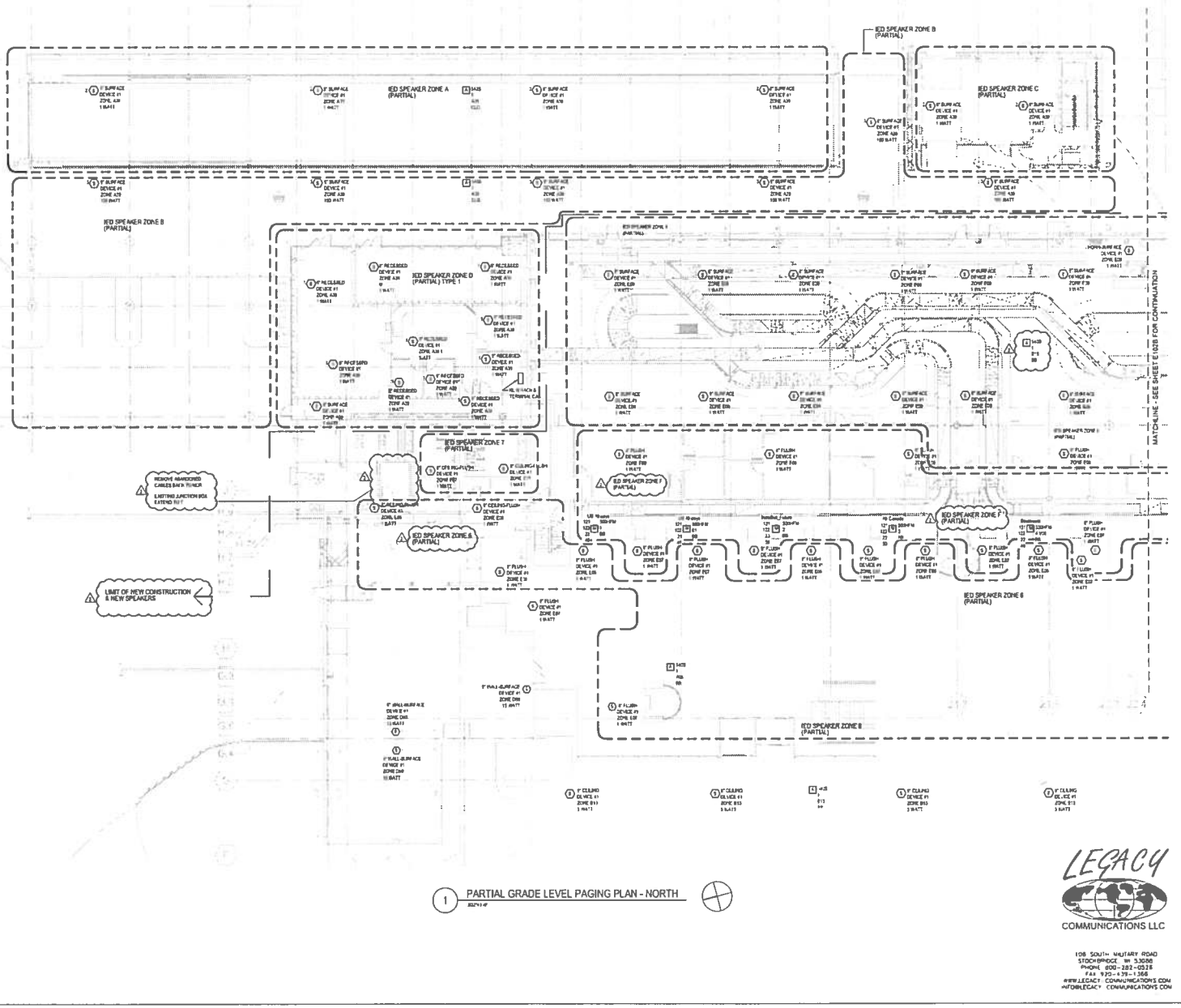
GRAEF

PROJECT NUMBER: A044-09002-02
DATE: 02-10-2012
SCALE: 1/8"=1'-0"
SHEET TITLE: PARTIAL GRADE LEVEL POWER PLANS

PROJECT TITLE: GENERAL MITCHELL INTERNATIONAL AIRPORT BAGGAGE SCREENING IMPROVEMENTS PHASE 2B

ADDENDUM # 03

E103B



1 PARTIAL GRADE LEVEL PAGING PLAN - NORTH

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KEY PLAN - PHASE 2B

REVISIONS:

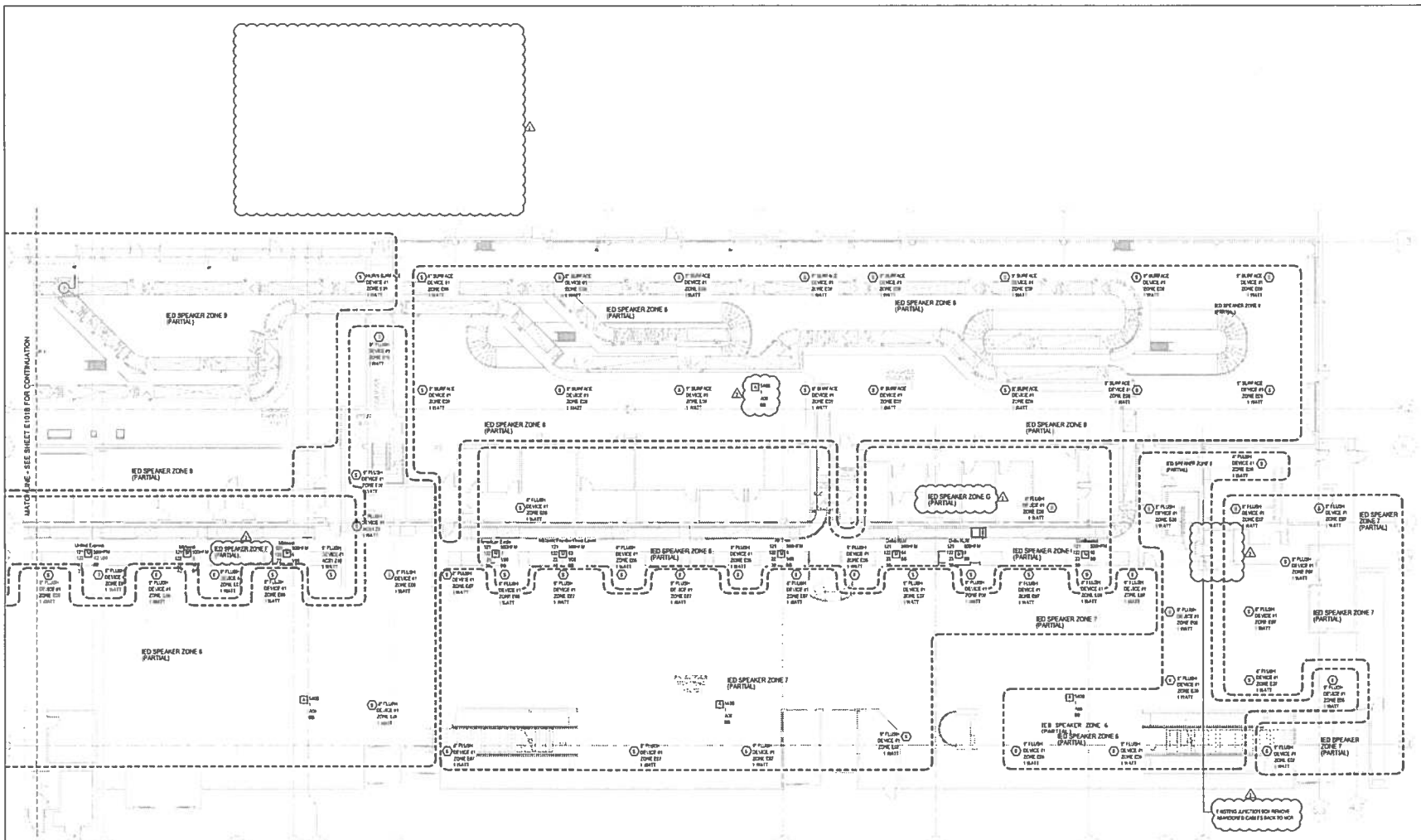
12-03-28-1	ADD #21
13-10-28-1	ADD #23

GENERAL MITCHELL INTERNATIONAL AIRPORT
BAGGAGE SCREENING IMPROVEMENTS PHASE 2B
5300 South Howell Avenue Milwaukee, Wisconsin

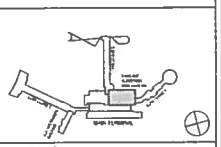
MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
CITY CAMPUS 2711 W. WELLS ST. 2ND FLOOR MILWAUKEE, WI 53208

GRAEF

DATE: 1.18.2012
PROJECT: A044-09002-02
GRAEF PROJECT: 2009-0218
SITE NO: 290
BUILDING NO: 190



1 PARTIAL GRADE LEVEL PAGING PLAN - SOUTH



KEY PLAN - PHASE 2B

REVISIONS:

12-13-2012	ADD #1
03-15-2013	ADD #2

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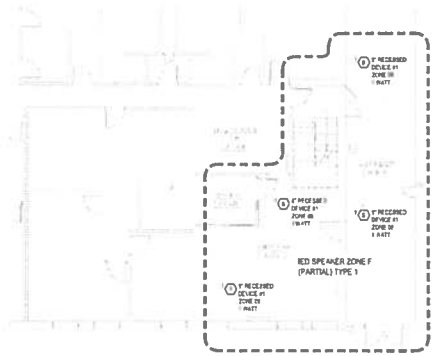
MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
CITY CAMPUS 2711 W. WELLS ST. 2ND FLOOR MILWAUKEE, WI 53208

GRAEF

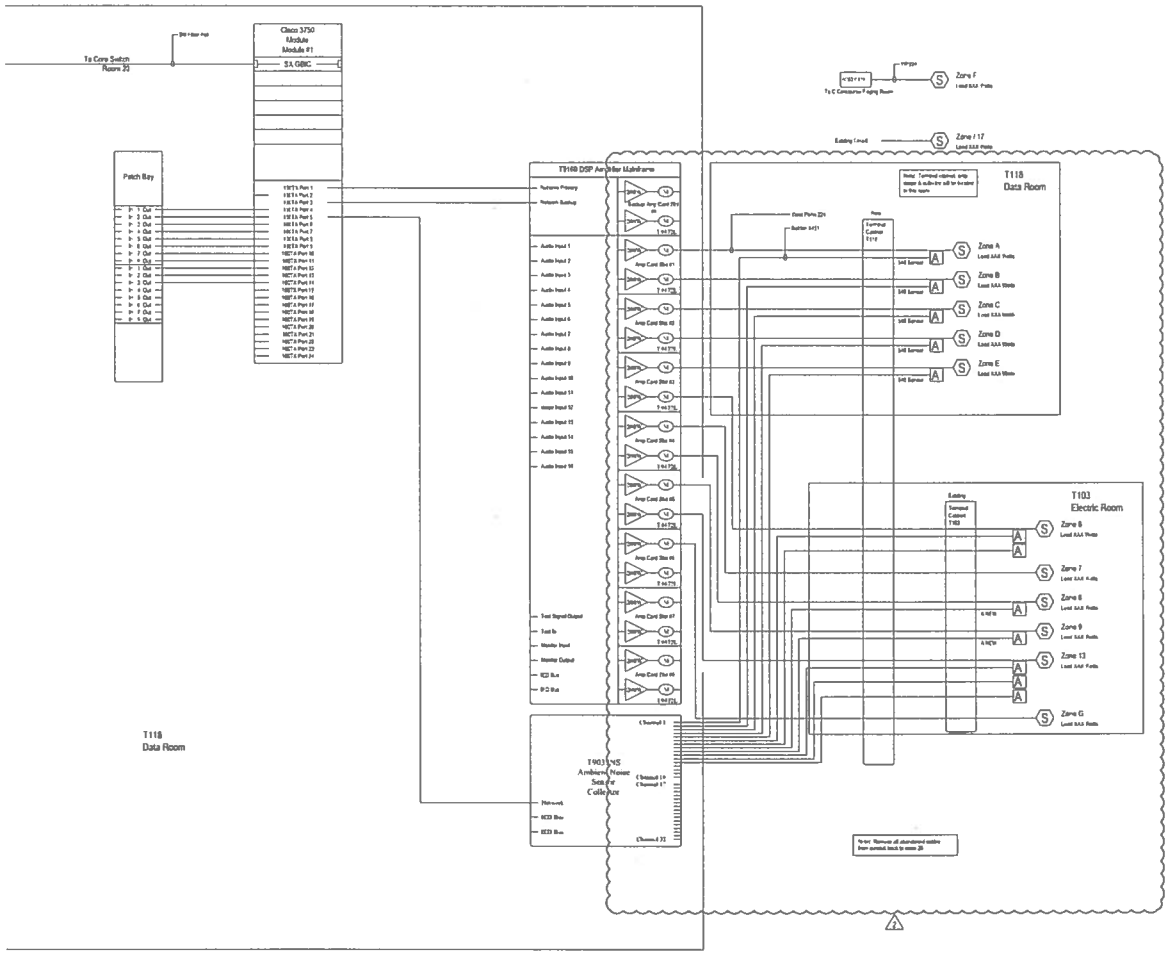
DATE: 1.18.2012
PROJECT: A044-09002-02
GRAEF PROJECT: 2003-0218
SITE NO: 290
BUILDING NO: 190

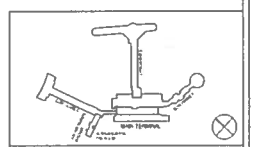
PARTIAL GRADE LEVEL PAGING PLAN - SOUTH ES302B



1 PARTIAL GRADE LEVEL PAGING PLAN - ADMINISTRATION BUILDING

1/8" = 1'-0"





KEY PLAN PHASE 2B

REVISIONS:

02-03-2012	ADD #1
05-04-2012	ADD #2

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GENERAL MITCHELL INTERNATIONAL AIRPORT
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MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
CITY CAMPUS 2711 W. WELLS ST. - 2ND FLOOR MILWAUKEE, WI 53208

GREF

DATE: 1.18.2012
PROJECT: A044-09002-02
GRAEF PROJECT: 2009-0218
SITE NO: 290
BUILDING NO: 190

PARTIAL GRADE LEVEL PAGING PLAN AND RISER DIAGRAM

ES303B

LEGACY COMMUNICATIONS LLC

GRAEF

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES

CITY CAMPUS 2711 W. WELLS ST - 2ND FLOOR MILWAUKEE, WI 53208

GENERAL MITCHELL INTERNATIONAL AIRPORT
BAGGAGE SCREENING IMPROVEMENTS PHASE 2B

5300 South Howell Avenue Milwaukee, Wisconsin

PARTIAL SECOND LEVEL PAGING PLAN - NORTH ES401B

1 PARTIAL CONCOURSE SECOND LEVEL PAGING PLAN - NORTH

LEGACY COMMUNICATIONS LLC

GREF

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES

CITY CAMPUS 2711 W. WELLS ST 2ND FLOOR MILWAUKEE WI 53208

GENERAL MITCHELL INTERNATIONAL AIRPORT
BAGGAGE SCREENING IMPROVEMENTS PHASE 2B

5300 South Howell Avenue Milwaukee, Wisconsin

PARTIAL CONCOURSE SECOND LEVEL PAGING PLAN - NORTH ES402B